## IN THE CLAIMS:

Claim 1 (Currently amended) An electrically operated valve for controlling flow of hydraulic fluid to or from apparatus which uses the hydraulic fluid flow controlled by the valve, the valve comprising:

a valve housing;

a spool slidable in a spool chamber in the valve housing;

a first fluid conduit extending through the valve housing for connecting the spool chamber with a source of pressurised fluid;

a second fluid conduit extending through the valve housing for connecting the spool chamber with a reservoir of fluid; and

a third fluid conduit in communication with the spool chamber which delivers fluid to or receives fluid from the apparatus which uses the hydraulic fluid flow controlled by the valve; wherein:

the spool is biassed to a rest position by a pair of opposed springs;

the spool in the rest position thereof closes off the first and second fluid conduits from the spool chamber and thereby prevents flow of fluid to and from the third fluid conduit;

the valve has a first electric coil associated with a first end of the spool and which can be activated to displace the spool from the rest position thereof to open the first fluid conduit to the spool chamber, whilst keeping closed the second fluid conduit, and thereby to allow pressurised fluid to flow from the first fluid conduit to the third fluid conduit; and

the valve has a second electric coil associated with a second end of the spool and which can be activated to displace the spool from the rest position thereof to open the second fluid conduit to the spool chamber, whilst keeping closed the first fluid conduit, and thereby to allow fluid to flow from the third fluid conduit to the second fluid conduit;

wherein a sleeve surrounds the spool and defines the spool chamber in which the spool is slidable, the sleeve having a first port through which the first fluid conduit communicates with the spool chamber, a second port through which the second fluid conduit communicates with the spool chamber and a third port through which the third fluid conduit communicates with the spool chamber, and wherein the valve has an adjustment mechanism for sliding the sleeve relative to the valve housing.

Claim 2 (Original) An electrically operated valve as claimed in claim 1 wherein the pair of opposed springs each apply a force on the spool when the spool valve is in the rest position thereof.

Claim 3 (Cancelled)

Claim 4 (Currently amended) An electrically operated valve as claimed in elaim 3 claim 1 wherein the adjustment mechanism comprises a rotatable cam which engages a reaction surface provided on the sleeve.

Claim 5 (Previously presented) An electrically operated valve as claimed in claim 1 wherein the spool has mounted thereon an armature surrounding the first end of the spool and displaceable within the first electric coil and the spool has mounted thereon an armature surrounding the second end of the spool and displaceable within the second electric coil.

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Claim 6 (Previously presented) A method of operating the electrically operated valve claimed in claim 1, the method comprising:

selecting between the first and second coils and

activating the first electric coil when pressurised fluid is to be relayed on to the apparatus using the hydraulic fluid flow and activating the second electric coil when fluid is to be returned from the apparatus using the hydraulic fluid flow back to the reservoir; and

controlling the current through and/or voltage across each electric coil when activated in order to control rate of flow of fluid through the valve.

Claim 7 (Previously presented) An engine valve operating system comprising:

an actuator which acts on an engine valve and can be extended to open the engine valve and retracted to allow the engine valve to close under the action of an engine valve spring;

an electrically operated valve as claimed in claim 1 controlling flow of hydraulic fluid to and from the actuator; and

an electronic controller for controlling the actuator.

Claim 8 (Currently amended) An engine valve operating system as claimed in claim 7 wherein:

the actuator comprises a piston movable in a cylinder;

the system comprises additionally a position transducer which produces a position signal indicative of the position of the piston; and

the electronic controller uses the position signal to generate an error signal used in and thereby provides a closed loop control [[of]] system for the actuator.

Claims 9-10 (Cancelled)

Claim 11 (Previously presented) An electrically operated valve as claimed in claim 2 wherein the spool has mounted thereon an armature surrounding the first end of the spool and displaceable within the first electric coil and the spool has mounted thereon an armature surrounding the second end of the spool and displaceable within the second electric coil.

Claim 12 (Previously presented) A method of operating the electrically operated valve claimed in claim 2, the method comprising:

selecting between the first and second coils and activating the first electric coil when pressurised fluid is to be relayed on to the apparatus using the hydraulic fluid flow and activating the second electric coil when fluid is to be returned from the apparatus using the hydraulic fluid flow back to the reservoir; and

controlling the current through and/or voltage across each electric coil when activated in order to control rate of flow of fluid through the valve.

Claim 13 (Previously presented) An engine valve operating system comprising:

an actuator which acts on an engine valve and can be extended to open the engine valve and retracted to allow the engine valve to close under the action of an engine valve spring:

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an electrically operated valve as claimed in claim 2 controlling flow of hydraulic fluid to and from the actuator; and

an electronic controller for controlling the actuator.

Claim 14 (Currently amended) An engine valve operating system as claimed in claim 13 wherein:

the actuator comprises a piston movable in a cylinder;

the system comprises additionally a position transducer which produces a position signal indicative of the position of the piston; and

the electronic controller uses the position signal to generate an error signal used in and thereby provides a closed loop control [[of]] system for the actuator.

Claim 15 (Cancelled)

Claim 16 (Currently amended) An electrically operated valve as claimed in claim 4 elaim 15 wherein the spool has mounted thereon an armature surrounding the first end of the spool and displaceable within the first electric coil and the spool has mounted thereon an armature surrounding the second end of the spool and displaceable within the second electric coil

Claim 17 (Currently amended) A method of operating the electrically operated valve claimed in <u>claim 4</u> elaim 15, the method comprising:

selecting between the first and second coils and activating the first electric coil when pressurised fluid is to be relayed on to the apparatus using the hydraulic fluid flow and activating the second electric coil when fluid is to be returned from the apparatus using the hydraulic fluid flow back to the reservoir; and

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controlling the current through and/or voltage across each electric coil when activated in order to control rate of flow of fluid through the valve.

Claim 18 (Currently amended) An engine valve operating system comprising:

an actuator which acts on an engine valve and can be extended to open the engine valve and retracted to allow the engine valve to close under the action of an engine valve spring;

an electrically operated valve as claimed in claim 4 elaim 15 controlling flow of hydraulic fluid to and from the actuator; and

an electronic controller for controlling the actuator.

Claim 19 (Currently amended) An engine valve operating system as claimed in claim 7 wherein:

the actuator comprises a piston movable in a cylinder;

the system comprises additionally a position transducer which produces a position signal indicative of the position of the piston; and

the electronic controller uses the position signal to generate an error signal used in and thereby provides a closed loop control [[of]] system for the actuator.

Claim 20 (Currently amended) An electrically operated valve as claimed in claim 2 wherein a sleeve-surrounds the spool and defines the spool chamber in which the spool is slidable, the sleeve having a first port through which the first fluid conduit communicates with the spool chamber, a second port through which the second fluid conduit communicates with the spool chamber and a third port through which the third

fluid conduit communicates with the spool chamber, and wherein the valve has an adjustment mechanism for sliding the sleeve relative to the valve housing; and wherein the adjustment mechanism comprises a rotatable cam which engages a reaction surface provided on the sleeve.

Claim 21 (Previously presented) An electrically operated valve as claimed in claim 20 wherein the spool has mounted thereon an armature surrounding the first end of the spool and displaceable within the first electric coil and the spool has mounted thereon an armature surrounding the second end of the spool and displaceable within the second electric coil.

Claim 22 (Previously presented) A method of operating the electrically operated valve claimed in claim 21, the method comprising:

selecting between the first and second coils and activating the first electric coil when pressurised fluid is to be relayed on to the apparatus using the hydraulic fluid flow and activating the second electric coil when fluid is to be returned from the apparatus using the hydraulic fluid flow back to the reservoir; and

controlling the current through and/or voltage across each electric coil when activated in order to control rate of flow of fluid through the valve.

Claim 23 (Previously presented) An engine valve operating system comprising:

an actuator which acts on an engine valve and can be extended to open the engine valve and retracted to allow the engine valve to close under the action of an engine valve spring:

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an electrically operated valve as claimed in claim 21 controlling flow of hydraulic fluid to and from the actuator; and

an electronic controller for controlling the actuator.

Claim 24 (Currently amended) An engine valve operating system as claimed in claim 23 wherein:

the actuator comprises a piston movable in a cylinder;

the system comprises additionally a position transducer which produces a position signal indicative of the position of the piston; and

the electronic controller uses the position signal to generate an error signal used in and thereby provides a closed loop control [[of]] system for the actuator.

Claim 25 (New) An electrically operated valve as claimed in claim 2 wherein the opposed springs both engage the spool valve directly, are both compressed when the spool valve is in the rest position and when the spool is moved from the rest position one of the springs is further compressed while the other of the springs extends.

Claim 26 (New) An electrically operated valve for controlling flow of hydraulic fluid to or from apparatus which uses the hydraulic fluid flow controlled by the valve, the valve comprising:

a valve housing;

a spool slidable in a spool chamber in the valve housing;

a first fluid conduit extending through the valve housing for connecting the spool chamber with a source of pressurised fluid:

a second fluid conduit extending through the valve housing for connecting the spool chamber with a reservoir of fluid; and

a third fluid conduit in communication with the spool chamber which delivers fluid to or receives fluid from the apparatus which uses the hydraulic fluid flow controlled by the valve; wherein:

the spool is biassed to a rest position by a pair of opposed springs;

the spool in the rest position thereof closes off the first and second fluid conduits from the spool chamber and thereby prevents flow of fluid to and from the third fluid conduit:

the valve has a first electric coil associated with a first end of the spool and which can be activated to displace the spool from the rest position thereof to open the first fluid conduit to the spool chamber, whilst keeping closed the second fluid conduit, and thereby to allow pressurised fluid to flow from the first fluid conduit to the third fluid conduit; and

the valve has a second electric coil associated with a second end of the spool and which can be activated to displace the spool from the rest position thereof to open the second fluid conduit to the spool chamber, whilst keeping closed the first fluid conduit, and thereby to allow

fluid to flow from the third fluid conduit to the second fluid conduit;

wherein the opposed springs both engage the spool valve directly, are both compressed when the spool valve is in the rest position and when the spool is moved

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from the rest position one of the springs is further compressed while the other of the springs extends.